

NBAA Safety Committee Risk Assessment Meeting

Robert Sumwalt

Welcome to NTSB Training Center







The Board





Bella Dinh-Zarr



Chris Hart



Robert Sumwalt



Earl Weener



Lockhart, TX July 2016



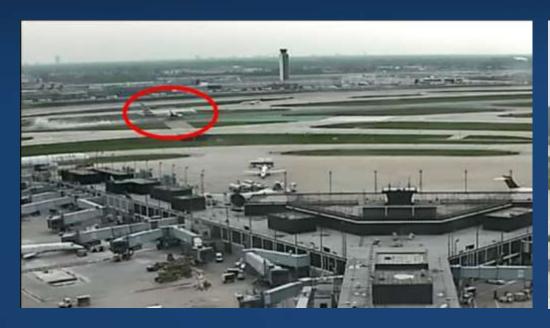




Disk Fragment Locations



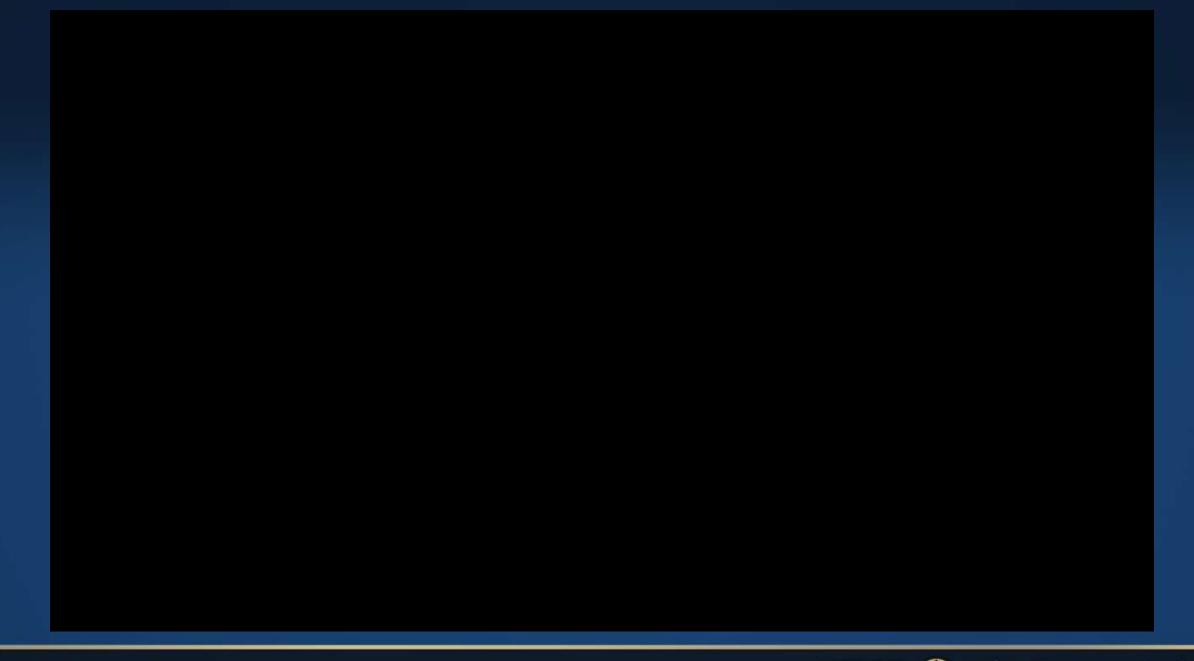
Video of Rejected Takeoff and Evacuation





Rejected takeoff

Evacuation



Unusable Attitude of 4L Slide



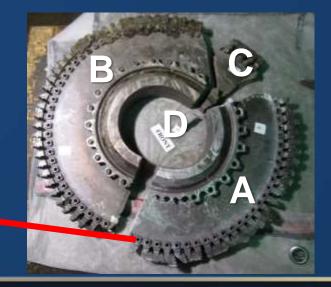


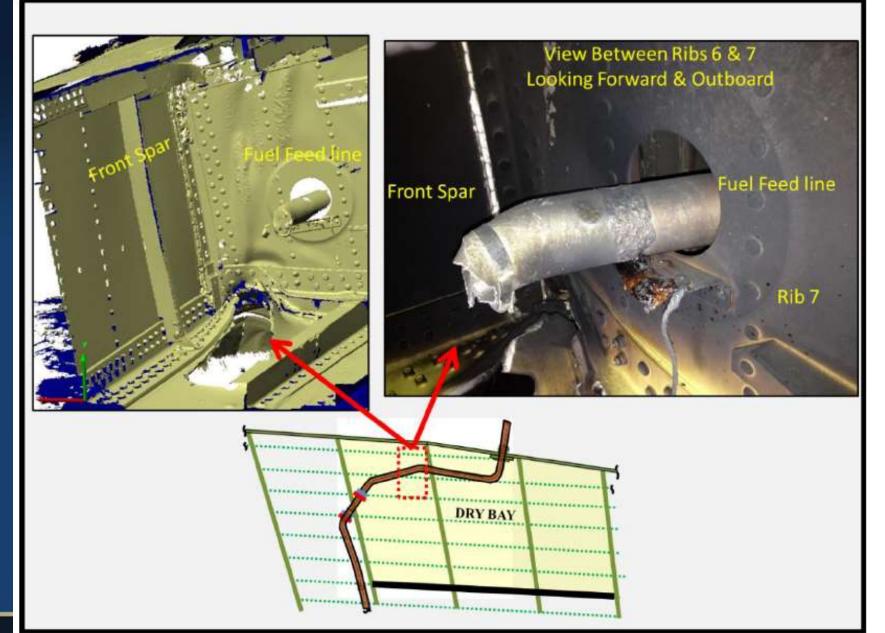


Uncontained Engine Failure

- High-pressure turbine (HPT) stage 2 disk rupture
- HPT stage 2 disk nickel-based alloy













Runway Safety





NTSB 2017-2018 MOST WANTED LIST OF TRANSPORTATION SAFETY IMPROVEMENTS

Reduce Fatigue-Related Accidents





skill. All too office, however, amateur and professional pilots, air traffic controllers, and maintenance F. performing safety-critical functions are impaired by fatigue stemming from insufficient or poor-quality. To manage the risks of operator fatigue in public transportation systems, companies must ensure that employers that the state of the st To manage the risks of operator tatigue in public transportation systems, companies must ensure that emplications with the control of dusy time to obtain high-quality sleep. Moreover, employees must actually use their off-dusy time to obtain high-quality sleep. Moreover, employees must actually use their off-dusy time to obtain high-quality sleep. Moreover, employees must actually use their off-dusy time to obtain high-quality sleep. Moreover, employees must actually use their off-dusy time to obtain high-quality sleep. Moreover, employees must actually use their off-dusy time to obtain high-quality sleep. sufficient off-duty time to obtain high-quality sleep. Moreover, employees must actually use their off-duty enough rest, as well as make personal choices to attend to medical and quality-of-life problems that negations from the control of the con Fatigue impairs performance and degrades a person's ability to stay alert, attentive, and engaged in the task of controlling

Over the years, we have investigated many accidents in all transportation modes in which fatigue was Over the years, we have investigated many accidents in all transportation modes in which tatigue was probable cause or a contributing factor. Nearly 20 percent of the 182 major National Transportation. probable cause or a contributing factor. Nearly 20 percent of the 182 major National Transportation investigations completed between January 1, 2001, and December 31, 2012, identified fatigue as a property aira factor on a factor. The consequences of fatigue on human performance can be subtle. Operators may not recognize to

The consequences of tatigue on human performance can be subtle. Operators may not recognize it showed reaction times, and poor judgment until it is too late. The traveling public can unknowingly at allowed or right become allowed reaction times, and poor judgment until it is too take. The traveling busin placed at risk because a fatigued operator cannot safely execute his or her duty. Human fatigue can be acute or chronic; both often arise from poor slee. numer i isaque cam un acuse or un unique, autri unique interi pran on health management. Fatique irrpairs performance and degrades a

nessin management. raugue arpains penutrialize and outgrades a stay alert, attentive, and engaged in the task of controlling a vehicle s



individual responsibility. We must draw attention to the medic affect sleep quality, such as obstructive sleep apnea (OSA). legs syndrome. We must also draw attention to company b negs synunome, we must also unaw attention to company to operators to schedule adequate off-dusy time for rest and to

operators to schedule adequate off-dusty time for rest, health conditions that affect the quality of their sleep.



a vehicle safely.

NTSB 69 Making Transportation Safer



NTSB 2017-2018 **MOST WANTED** LIST OF

IMPROVEMENTS

SAFETY

TRANSPORTATION

Drug Impairment in Transportation

End Alcohol and Other







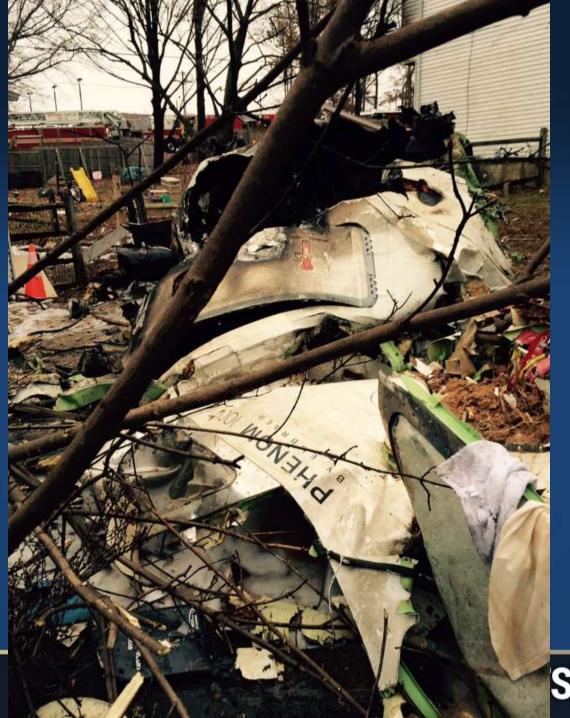
Gaithersburg, Maryland

December 2014









"Embraer's decision to install a cockpit voice and data recorder in the EMB-500 fleet greatly benefited the NTSB's investigation ... by ensuring investigators had access to critical information for determining



the sequence of events that led to the accident and identifying actions needed to prevent a similar accident in the future."



MOST WANTED LIST OF

Prevent Loss of Control in Flight in General Aviation

TRANSPORTATION SAFETY IMPROVEMENTS





AVIATION

Act to End Deadly Distractions

2ND ROUNDTABLE ON DISTRACTIONS

PRESENTED BY THE

National Transportation Safety Board AND StopDistractions.org



WEDNESDAY, APRIL 26, 2017 9:00AM-4:30PM | WASHINGTON, DC

NTSB BOARDROOM & CONFERENCE CENTER

FACILITATED BY NTSB BOARD MEMBER

The Honorable Robert Sumwalt

Ann StopDistractions.org National Transportation Safety Board

The Honorable Robert Sumwalt

